WASHINGTON STATE DEPARTMENT OF
**Natural Resources**

BP 1043899
RO 4900/T4900/42127

# APPLICATION FOR RECLAMATION PERMIT
# FORM SM-8A

**Check appropriate box(es):** ☒ new permit ☐ revision of existing permit ☐ transfer of permit ☐ expansion

**NOTE: Do not attempt to complete this form until you have carefully read the accompanying instruction document (SM8AINST.PDF). Do not attempt to use this form as an MS Word Template unless you are familiar with the use of templates in MS Word.**

**1.** NAME OF APPLICANT/PERMIT HOLDER(S)
**Seubert Excavators, Inc.**

**2.** MAILING ADDRESS
**P.O. Box 57**
**Cottonwood, Idaho 83522**

**3.** Telephone **208-962-3314**
UBI No.

**4.** NAME OF MINE
**Miller Quarry**

**5.** Street address and milepost of surface mine
**See attached Location Maps**

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Geology and Earth

**6.** Distance (miles) **5.5 miles**

**7.** Direction from **SW**

**8.** Nearest community **Colfax, Washington**

**9.** COUNTY **Whitman**
No attachments will be accepted. Legal Description of permit area:

| 1/4 | 1/4 | Section | Township | Range |
|---|---|---|---|---|
| SW | SW | 5 | 15N | 43E, W.M. |
| SE | SE | 6 | 15N | 43E, W.M. |
| | | | | |
| | | | | |
| | | | | |

**10.** TOTAL ACREAGE OF PERMIT AREA APPLIED FOR
(include all acreage to be disturbed by mining, setbacks, buffers, and associated activities during the life of the mine.)
35± acres

**11.** Do you or any person, partnership, or corporation associated with you now hold, or have you held, a surface mining operating or reclamation permit? ☒ yes ☐ no

If you answered yes to the above, please list:

| Permit Number | Active Operation? | | Reclamation current/complete? | |
|---|---|---|---|---|
| | Yes | No | Yes | No |
| 70-012354 (Colfax Quarry) | ☒ | ☐ | ☒ | ☐ |
| 70-010128 (Druffel Quarry) | ☒ | ☐ | ☒ | ☐ |
| 011339 (Meyer Quarry) | ☒ | ☐ | ☒ | ☐ |
| | ☐ | ☐ | ☐ | ☐ |

**12.** Are all of these mines now in compliance with RCW 78.44, WAC 332-18, and conditions of the permits? ☒ yes ☐ no

**13.** Have you ever had a surface mine operating or reclamation permit revoked? ☐ yes ☒ no

Have you ever had a reclamation security forfeited? ☐ yes ☒ no
If you answered yes to either of the above, list the permit number(s):

**14.** Type of proposed or existing mine: ☐ pit ☒ quarry
Material(s) to be mined: ☐ sand and gravel ☒ rock or stone ☐ clay ☐ metal ☐ limestone ☐ silica ☐ other ____

Deposit type: ☐ glacial ☐ river floodplain (alluvial) ☐ river channel deposits ☐ talus ☒ bedrock ☐ lode ☐ unknown ☐ other ____

**15.** Total Acreage and Depth of Permit Area: **35± acres**
(Include all acreage to be disturbed by mining, setbacks, buffers, and associated activities during the life of the mine.) (See Form SM-6.)

Total area disturbed will be 33± acres.
Area to be disturbed in next 36 months will be 11 acres.

Maximum vertical depth below pre-mining topographic grade is 200 feet.
Maximum depth of excavated mine floor is 1,870 feet relative to mean sea level

**16.** Expected start date of mining **July 2006**

**17.** Estimated number of years **25**

**18.** Total quantity to be mined over life of mine (estimated): **5.5 million** ☒ tons, or ☐ cu yds

**19.** Estimated annual production: **280,000** ☒ tons, or ☐ cu yds

**20.** Subsequent land use: ☐ industrial ☐ commercial ☐ residential ☒ agricultural ☐ forestry ☐ wetlands and lakes ☐ Other ____

Reclaimed elevation of floor of mine: 1,870± feet relative to mean sea level

Reclaimed elevation is shown on cross sections? ☒ yes ☐ no

Subsequent land use is compatible with County or Municipal comprehensive plan? ☒ yes ☐ no

County or Municipality Approval for Surface Mining (Form SM-6) attached? ☒ yes ☐ no

SEPA Checklist required? ☒ yes ☐ no

If any answers are no, explain: ____

**21.** Application fee for a new reclamation permit is herewith attached? ☒ yes ☐ no

13083

# CHECKLIST OF RECLAMATION STANDARDS

## 22. SEGMENTAL RECLAMATION

Permit area has been divided into segments for mining and a mining schedule has been developed? ☒ yes ☐ no
If no, explain:

Permit area has been divided into segments for reclamation and a reclamation schedule has been developed? ☒ yes ☐ no
If no, explain:

## 23. SITE PREPARATION

### 23A. Permit and Disturbed Area Boundaries

Boundary of the permit area has been marked on the ground with permanent boundary markers? ☒ yes ☐ no
Explain boundary markers: **Boundary markers will consist of high visibility, white, impact resistant, flexible delineators (such as Rhino Triview Flex™, Rhino 3-Rail™, or equivalent). Necessary setbacks will be temporarily marked during active mining operations using wood stakes with streamers.**

### 23B. Saving Topsoil, Subsoil, and Overburden for Reclamation

Thickness of topsoil is _____ feet **Overburden ranges from 1 foot on the slope to 4 feet thick in the farmed area.**
Thickness of subsoil is _____ feet
Depth to bedrock is _____ feet
Total volume of topsoil is _____ cubic yards
Total volume of subsoil is _____ cubic yards
Volume of stored topsoil/subsoil is **97,000** cubic yards and will require **4.5** acres for storage.

Storage areas are shown on maps and have been marked on the ground with permanent boundary markers? ☒ yes ☐ no

Topsoil will be salvaged? ☒ yes ☐ no
If no, explain:

Topsoil and overburden will be moved to reclaim an adjacent depleted segment? ☒ yes ☐ no
If no, explain:

Before materials are moved, vegetation will be cleared and drainage planned for soil storage areas? ☒ yes ☐ no
If no, explain:

Soil storage areas will be stabilized with vegetation to prevent erosion if materials will be stored for more than one season? ☒ yes ☐ no
If no, explain:

### 23C. Setbacks and Screens

Maximum depth of the mine will be **200** feet from **2070** feet (*highest*) to **1870** feet (*lowest*) elevation relative to mean sea level.

The setback for this site will be **30** feet wide.

Is a permanent, undisturbed buffer planned for this site? ☒ yes ☐ no
If no, explain:

Setbacks are shown on maps and have been marked on the ground with permanent boundary markers? ☒ yes ☐ no
If no, explain: **Setbacks are shown on maps. Markers will be temporary wooden stakes with streamers to be set up during mining operations and referenced to the permanent boundary markers.**

# CHECKLIST OF RECLAMATION STANDARDS

Does this site have a backfilling plan that addresses the protection of adjacent property and how the final, stable slopes are to be achieved? ☐ yes ☒ no

If no, explain: **Backfilling will not be used to obtain final slopes. Final slopes will be achieved by the cut method.**

**23D. Buffers to Protect Streams and Flood Plains**

*If yes, see "Additional Information Requirements for Flood Plain Mines." This document is included in the SM8AINST.PDF file.*

A stream buffer of at least 200 feet has been marked on the ground with permanent boundary markers? ☐ yes ☒ no

A buffer of at least 200 feet from the 100-year flood plain has been marked on the ground with permanent boundary markers? ☐ yes ☒ no

If no, explain: **An area of approximately 30 feet by 200 feet where vehicles or machinery may be placed is within 200 feet of Union Flat Creek and its 100-year flood plane. Mining will not occur within the 200-foot buffer. Almota Road is located between the stream and the permit area, providing a physical barrier that prevents a surface water connection to the creek. On the quarry side of the road, a 30-foot buffer of undisturbed ground will be maintained.**

Copy of Shoreline Permit from local government or the Dept of Ecology is attached? ☐ yes ☒ no

Hydraulic Project Approval from the Department of Fish and Wildlife is attached? ☐ yes ☒ no

**23E. Conservation Buffers**

Conservation buffers will be established for the following purpose(s): (*Check all that apply*)

☐ unstable slopes ☐ wildlife habitat ☒ water quality ☐ other _____

Describe the nature and configuration of the conservation buffer(s): **A conservation buffer of 75 feet will be maintained along a drainage ditch at the northeast point of the permit boundary.**

Conservation setbacks are shown on maps and have been marked on the ground with permanent boundary markers? ☒ yes ☐ no

**23F. Ground Water**

High water table depth is _____ feet ☐ relative to mean sea level, ☐ below original surface, or ☒ unknown.

Low water table depth is _____ feet ☐ relative to mean sea level, ☐ below original surface, or ☒ unknown.

Annual fluctuation of water table is from _____ feet on _____ to _____ feet on _____.

Direction of ground water flow: _____

Are well logs attached? ☐ yes ☒ no

Is the aquifer perched? ☐ yes ☐ no **N/A**

Is the shallowest aquifer: ☐ confined ☐ unconfined **N/A**

The site will be mined: ☐ wet ☒ dry ☐ both

Describe mining method:

The site is in a:

☐ critical aquifer recharge area ☐ sole source aquifer ☐ public water supply watershed

☐ wellhead protection area ☐ special protection area ☐ designated aquifer protection area

Ground water study attached? ☐ yes ☒ no

***If yes, see "Additional Information Requirements for Hydrologically Sensitive Areas." This document is included in the SM8AINST.PDF file.***

If no, explain: **Water is not anticipated to be within the source.**

**23G. Archeology**

Are archeological/cultural resource sites present? ☐ yes ☒ no

## 24. MINING PRACTICES TO FACILITATE RECLAMATION

### 24A. Soil Replacement

Topsoil will be saved? ☒ yes ☐ no
If no, explain:

Up to 4 feet of topsoil and (or) subsoil will be restored? ☒ yes ☐ no
If no, explain:

Topsoil will be restored and seedbeds prepared as necessary to promote effective revegetation and to stabilize slopes and mine floor? ☒ yes ☐ no
If "yes" give details, if "no", explain: **Topsoil and overburden will be placed on the slopes, spurs, safety berm, catchment berm, and quarry floor for revegetation.**

Subsoil will be replaced to an approximate depth of N/A feet on the pit floor and a depth of _____ feet on slopes. **Varies due to reclamation for chutes, spurs, and talus slopes.**

Topsoil will be replaced to an approximate depth of N/A feet on the pit floor and a depth of _____ feet on slopes. **Varies due to reclamation for chutes, spurs, and talus slopes.**

Topsoil will be distributed evenly over the site? ☐ yes ☒ no
If no, explain: **Varies due to reclamation for chutes, spurs, and talus slopes.**

If topsoil is in short supply, it will be strategically placed in depressions and low areas in adequate thickness to conserve moisture and promote revegetation? ☒ yes ☐ no
If no, explain:

Topsoil will be moved when conditions are not overly wet or dry? ☒ yes ☐ no
If no, explain:

Topsoil will be imported? ☐ yes ☒ no
If yes, describe source. If no, explain: **Not required for planned reclamation.**

Synthetic topsoil made from compost, biosolids, or other amendments will be used and (or) made on site to supplement existing topsoil? ☐ yes ☒ no
If yes, explain:

Materials such as till, loess, and (or) silt are available on site that could be used to supplement topsoil for reclamation. ☒ yes ☐ no
If yes, explain: **Quarry rejects will be used to reclaim the source.**

Silt from settling ponds or a filter press will be used for reclamation? ☐ yes ☒ no
If yes, explain:

# CHECKLIST OF RECLAMATION STANDARDS

Settling pond clay slurries will be pumped or hauled to other segments for reclamation? ☐ yes ☒ no
If yes, explain:

Topsoil will be replaced with equipment that will minimize compaction, or it will be plowed, disked, or ripped following placement? ☒ yes ☐ no
If no, explain:

Topsoil will be immediately stabilized with grasses and legumes to prevent loss by erosion, slumping, or crusting? ☒ yes ☐ no
If no, explain:

Topsoil stockpile areas are shown on maps and will be marked on the ground with permanent boundary markers to protect from loss? ☒ yes ☐ no
If no, explain:

Segmental topsoil removal and replacement is shown on maps? ☒ yes ☐ no
If no, explain:

Topsoil salvage and replacement plan included? ☒ yes ☐ no
If no, explain:

**24B. Removal of Vegetation**

Vegetation will be removed sequentially from areas to be mined to prevent unnecessary erosion? ☒ yes ☐ no
If no, explain:

Small trees and other transplantable vegetation will be salvaged for use in revegetating other segments? ☐ yes ☐ no N/A
If yes, give details. If no, explain:

Wood and other organic debris will be:
☐ recycled ☐ removed from site ☐ chipped ☐ burned ☒ buried ☐ used to synthesize topsoil or mulch
☐ other (*explain*)
Solid waste disposal, burning, and land use permits are attached? **Not required** ☐ yes ☐ no

Some coarse wood (logs, stumps) and other large debris will be salvaged for fish and wildlife habitats? ☐ yes ☐ no N/A
If yes, give details. If no, explain: **Coarse wood and other large debris is not located on the site.**

**24C. Erosion control for Reclamation**

Pit floor will slope at gentle angles toward highwall, sediment retention pond, or proper drainage? ☒ yes ☐ no
If yes, give details. If no, explain: **Pit floor will be sloped 1/2 to 1 percent to drain into an erosion control pond to be maintained near the highwall.**

# CHECKLIST OF RECLAMATION STANDARDS

| | |
|---|---|
| Revegetation, sheeting, and (or) matting will be used to protect areas susceptible to erosion?<br>If yes, give details. If no, explain: **Proactive measures will be incorporated if an area susceptible to erosion is encountered.** | ☒ yes ☐ no |
| Water control systems used for erosion control during segmental reclamation will:<br>Divert clean water around pit?<br>Trap sediment-laden runoff before it enters a stream?<br>Result in essentially natural conditions of volume, velocity, and turbidity?<br>Handle a 25-year, 24-hour peak event?<br>*(Have you attached calculation?)*<br>Be removed or reclaimed?<br>If any answers are no, explain: **Calculations for the 25-year, 24-hour peak rain event are on file for review upon request.** | ☒ yes ☐ no<br>☒ yes ☐ no<br>☒ yes ☐ no<br>☒ yes ☐ no<br>☐ yes ☒ no<br>☒ yes ☐ no |
| Will any water control systems be removed upon final reclamation?<br>If yes, explain: | ☐ yes ☒ no |
| Water control measure will be established to prevent erosion of setbacks and neighboring properties?<br>If yes, give details. If no, explain: **Existing vegetation will not be disturbed to maintain stability of the soils and natural filtration properties for water runoff. If necessary, protective measures will be incorporated if an area susceptible to erosion is encountered.** | ☒ yes ☐ no |
| Storm-water conveyance ditches and channels will be lined with vegetation or riprap?<br>If yes, give details. If no, explain: **Stormwater ditches will be lined with riprap material and have check dams placed as necessary to control runoff.** | ☒ yes ☐ no |
| Natural and other drainage channels will be kept free of equipment, wastes, stockpiles, and overburden?<br>If no, explain: | ☒ yes ☐ no |

## 25. RECLAMATION TOPOGRAPHY

### 25A. Final Slopes

| | |
|---|---|
| Final slopes will be created using the cut-and-fill method?<br>Explain procedure to be used: | ☐ yes ☒ no |
| Slopes will be created by mining to the final slope using the cut method?<br>Explain procedure to be used: **Slopes will be cut utilizing appropriate blasting techniques.** | ☒ yes ☐ no |
| Slopes will vary in steepness?<br>If no, explain: | ☒ yes ☐ no |
| Slopes will have a sinuous appearance in both profile and plan view?<br>If no, explain: | ☒ yes ☐ no |

# CHECKLIST OF RECLAMATION STANDARDS

Large rectilinear (that is, right angle, or straight, planar) areas will be eliminated? ☒ yes ☐ no
If no, explain:

Where reasonable, tracks of the final equipment pass will be preserved and oriented to trap moisture, soil, and seeds, and to inhibit erosion? ☒ yes ☐ no
If no, explain:

**25B. Slope Requirements for Pits and Overburden/Waste Rock Dumps (non-saleable products)**

***If the mine is a quarry or in hard rock, skip to Quarry section(25C).***

Slopes will vary between 2 and 3 feet horizontal to 1 foot vertical or flatter, except in limited areas where steeper slopes are necessary to create sinuous topography and control drainage? ☐ yes ☐ no N/A
If no, explain:

For pits, slopes will not exceed 2 feet horizontal to 1 foot vertical except as necessary to blend with adjacent natural slopes? ☐ yes ☐ no N/A
Give details:

Slope stability analysis required? ☐ yes ☐ no N/A
***If yes, see "Additional Information Requirements for Mines with Potentially Unstable or Steep Slopes." This document is included in the SM8AINST.PDF file.***
Slope stability analysis provided by ____

**25C. Slope Requirements for Quarries and Hardrock Metal Mines**

***If mine is a pit in unconsolidated materials covered by Section 25B, go to Section 25D***

Check the appropriate box(es)
☐ Slopes will not exceed 2 feet horizontal to 1 foot vertical.
☒ Slopes steeper than 1 foot horizontal to 1 foot vertical are an acceptable subsequent land use as confirmed on Form SM-6.
☒ Hazardous slopes or cliffs are indigenous to the immediate area and already present a potential threat to human life. Photo and maps attached to document presence of cliffs. **Union Flat Creek flows through a narrow valley with areas of steep slopes and occasional rock outcroppings. See the attached Site Access Map and photo sheets.**
☐ Geologic or topographic characteristics of the site preclude slopes being reclaimed at a flatter angle and are an acceptable subsequent land use as confirmed on Form SM-6.

Slope stability analysis required? ☐ yes ☒ no
***If yes, see "Additional Information Requirements for Mines with Potentially Unstable or Steep Slopes." This document is included in the SM8AINST.PDF file.***
Slope stability analysis provided by ____

Measures will be taken to limit access to the top and bottom of hazardous slopes? ☒ yes ☐ no
Describe measures, or if no, explain: **A safety berm will be maintained to delineate the top of the quarry along an area that is farmed.**

Selective blasting will be used to remove benches and walls and to create chutes, buttresses, spurs, scree slopes, and rough cliff faces that appear natural? ☒ yes ☐ no
Describe procedures, or if no, explain: **The final highwall will be reduced to maximum 50-foot vertical faces with chutes, spurs, and talus slopes varied from 1:1 to 2:1.**

Reclamation blasting will be used to reduce the entire highwall to a scree or rubble slope less than 2 feet horizontal to 1 foot vertical? ☐ yes ☒ no
Blasting plan is attached? ☐ yes ☒ no
If no, explain: **Blasting will be controlled to achieve the final face as described above.**

# CHECKLIST OF RECLAMATION STANDARDS

Access to benches will be maintained for reclamation blasting? ☒ yes ☐ no
If no, explain:

Small portions of benches will be left to provide habitat for raptors and other cliff-dwelling birds? ☒ yes ☐ no

**25D. Backfilling**

Slopes will require backfilling? ☐ yes ☒ no
Depth of backfilling is _____ feet.
Slope stability compaction analysis required? ☐ yes ☐ no N/A
Compaction analysis provided by

Backfilling plan and (or) permits are attached? ☐ yes ☐ no N/A
If no, explain:

Backfilling will be done with overburden material after topsoil has been separated? ☐ yes ☐ no N/A
If no, describe composition and source of backfill material:

Explain method of placement of fill:

Locations of stockpiles are shown on maps and will be marked on the ground with permanent boundary markers? ☐ yes ☐ no N/A

Will backfill be imported? ☐ yes ☐ no N/A
If yes, give volumes needed to meet reclamation plan:

Areas to be backfilled are shown on maps? ☐ yes ☐ no N/A
If no, explain:

All grading/backfilling will be done with clean, inert, non-organic solids? ☐ yes ☐ no N/A
If yes, give details. If no, explain:

Backfilled slopes will be compacted? ☐ yes ☐ no N/A
If yes, give details. If no, explain:

Will you be backfilling into water? ☐ yes ☐ no N/A
If yes, is slope stability analysis attached? ☐ yes ☐ no N/A
If yes, describe method:

**25E. Mine Floors**

Flat areas will be formed into gently rolling mounds? ☐ yes ☒ no
If yes, give details. If no, Explain: **Quarry floor will be left smooth and sloped to drain. Subsequent use of the quarry floor will be for agricultural purposes such as equipment, hay or grain storage, shop buildings, feedlot, or other permitted use.**

# CHECKLIST OF RECLAMATION STANDARDS

Mine floor will be gently graded into sinuous drainage channels to preclude sheetwash erosion during intense precipitation? ☐ yes ☒ no
If yes, give details. If no, explain: **Quarry floor will be sloped to drain.**

Mine floor and other compacted areas will be bulldozed, plowed, ripped, or blasted to foster revegetation? ☒ yes ☐ no
If yes, give details. If no, explain: **Blasting will be used to fracture the quarry floor.**

**25F. Lakes, Ponds, and Wetlands**

Is water currently present in the area or will the mining penetrate the water table? ☐ yes ☒ no
***If no, go to Section 25G.***

Reclaimed areas below the permanent low water table in soil, sand, gravel, and other unconsolidated material will have a slope no steeper than 1.5 feet horizontal to 1 foot vertical? ☐ yes ☐ no N/A
If yes, give details. If no, explain:

If not already present, soils, silts, and clay-bearing material will be placed below water level to enhance revegetation? ☐ yes ☐ no N/A
If yes, give details. If no, explain:

Some parts of pond and lake banks will be shaped so that a person can escape from the water? ☐ yes ☐ no N/A
If yes, give details. If no, explain:

Armored spillways or other measures to prevent undesirable overflow or seepage will be provided to stabilize bodies of water and adjacent slopes? ☐ yes ☐ no N/A
If yes, give details. If no, explain:

Wildlife habitat will be developed, incorporating such measures as: N/A
- Sinuous and irregular shorelines? ☐ yes ☐ no
- Varied water depths? ☐ yes ☐ no
- Shallow areas less than 18 inches deep? ☐ yes ☐ no
- Islands and peninsulas? ☐ yes ☐ no

Give details:

Ponds or basins will: N/A
- Be located in stable areas? ☐ yes ☐ no
- Have sufficient volume for expected runoff? ☐ yes ☐ no
- Have an emergency overflow spillway? ☐ yes ☐ no
- Spillways and outfalls will be protected (for example, rock armor) to prevent failure and erosion? ☐ yes ☐ no

If any answers are no, explain:

Proper measures will be taken to prevent seepage from water impoundments that could cause flooding outside the permitted area or adversely affect the stability of impoundment dams or adjacent slopes? ☐ yes ☐ no N/A
If yes, give details. If no, explain:

Written approval from other agencies with jurisdiction to regulate impoundment of water is attached? ☐ yes ☐ no N/A
If no, explain:

# CHECKLIST OF RECLAMATION STANDARDS

**25G. FINAL DRAINAGE CONFIGURATION**

Drainage will be capable of carrying the peak flow of the 25-year, 24-hour precipitation event (*Data are available at DNR Region offices*) ☒ yes ☐ no
If yes, are calculations attached? ☐ yes ☒ no
If yes, give details. If no, explain: **The quarry floor will have a 1/2 to 1 percent slope with an overburden and reject material surface over fractured basalt. The resultant effective water capacity and infiltration rate will be higher than pre-mining conditions. Therefore, the peak flow of a precipitation event will be lower than the current condition.**

Drainages will be constructed on each reclaimed segment to control surface water, erosion, and siltation? ☒ yes ☐ no
Clean runoff is directed to a safe outlet? ☒ yes ☐ no
If either yes, give details. If no, explain: **The quarry floor will be sloped 1/2 to 1 percent to promote proper drainage. Most water will seep into the quarry floor and minimizing runoff quantities.**

Are these shown on maps? ☒ yes ☐ no

The grade of ditches and channels will be constructed to limit erosion and siltation? ☐ yes ☒ no
If yes, give details. If no, explain: **The reclamation plan does not include ditches and channels.**

Natural-appearing drainage channels will be established upon reclamation? ☐ yes ☒ no
If yes, give details. If no, explain: **The quarry floor will be sloped 1/2 to 1 percent to promote proper drainage. Most water will seep into the quarry floor minimizing runoff.**

## 26. SITE CLEANUP AND PREPARATION FOR REVEGETATION

**26A. Dealing with Hazardous Materials**

Hazardous materials are present at the mine site? ☐ yes ☒ no
***If no, go to Section 25B***

The final ground surface drains away from any hazardous natural materials? ☐ yes ☐ no N/A
If yes, give details. If no, explain:

Plan for handling hazardous mineral wastes indigenous to the site is attached? ☐ yes ☐ no N/A
If no, written approval from all appropriate solid waste regulatory agencies attached? ☐ yes ☐ no N/A

**26B. Removal of Debris**

All debris (garbage, 'bone piles', treated wood, old mining equipment, etc.) will be removed from the mine site? ☒ yes ☐ no
All sheds, scale houses, and other structures will be removed from the site? ☒ yes ☐ no
If either answer is yes, give details. If no, explain: **The quarry is kept free of debris at all times. During final reclamation of the site, all equipment and structures will be removed.**

## 27. REVEGETATION

The mine site is in: ☒ eastern Washington ☐ western Washington

The mine site is: ☐ wet ☒ dry?

The average precipitation is **18 inches** per year.

Revegetation will start during the first proper growing season (fall for grasses and legumes, fall or late winter for trees and shrubs) following restoration of slopes? ☒ yes ☐ no
If yes, give details. If no, explain:

Test plots will be used to determine optimum vegetation plans? ☐ yes ☒ no

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The site will not be revegetated because:

☐ It is a rural area with a rainfall exceeding 30 inches annually and erosion will not be a problem (requires approval of DNR).

☐ Demonstration plots and areas will be used to show that active revegetation is not necessary.

☐ Revegetation is inappropriate for the approved subsequent use of this surface mine.

Explain: **N/A**

Documentation is attached? ☐ **yes** ☐ **no N/A**

**27A. Recommended Pioneer Species**

In the Sections below, check the species that will be planted at your mine site:

**** indicates nitrogen-fixing species***

**Western Washington Dry Areas**

| | | | |
|---|---|---|---|
| ☐ alfalfa* | ☐ Lupine* | ☐ clover* | ☐ orchard grass |
| ☐ cereal rye | ☐ perennial rye | ☐ colonial bent grass | ☐ ponderosa pine |
| ☐ creeping red fescue | ☐ red alder* | ☐ Douglas fir | ☐ shore pine |
| ☐ ground cover | ☐ shrubs | ☒ other **N/A** | |

**Western Washington Wet Areas**

| | | | |
|---|---|---|---|
| ☐ birdsfoot trefoil | ☐ sedges | ☐ cedar | ☐ tubers |
| ☐ cottonwood | ☐ wetland grasses | ☐ creeping red fescue | ☐ willow |
| ☐ red alder* | ☒ other **N/A** | | |

**Eastern Washington Dry Areas**

| | | | |
|---|---|---|---|
| ☐ alder* | ☒ grasses | ☐ alfalfa* | ☐ juniper |
| ☐ black locust | ☐ lodgepole pine | ☐ clover | ☐ lupine* |
| ☐ deciduous trees | ☐ ponderosa pine | ☐ shrubs | ☐ deep-rooted ground cover |
| ☐ diverse evergreens | ☐ other | | |

**Eastern Washington Wet Areas**

| | | | |
|---|---|---|---|
| ☐ alder* | ☐ cottonwood | ☐ poplar | ☐ sedges |
| ☐ serviceberry | ☐ tubers | ☐ willow | |
| ☒ other **N/A** | | | |

Give planting details (stems/acres of trees and shrubs, see Forest Practices manual; lbs/acre of grass, legume, or forb mixture):

**The following see mixture will be broadcast over the slopes, spurs, safety berm, catchment berm, and quarry floor at a rate of 17 lbs/acre: Sherman Blue Grass, 20 percent; Slender Wheat Grass, 40 percent; Bluebunch Wheat Grass, 40 percent.**

Describe weed control plan:

**N/A**

**27B. Planting Techniques**

Revegetation at this site will require:

| | | |
|---|---|---|
| Ripping and tilling? | ☐ **yes** | ☒ **no** |
| Blasting to create permeability? | ☒ **yes** | ☐ **no** |
| Mulching? | ☐ **yes** | ☒ **no** |
| Irrigation? | ☐ **yes** | ☒ **no** |
| Fertilization? | ☐ **yes** | ☒ **no** |
| Importation of clay- or humus-bearing soils? | ☐ **yes** | ☒ **no** |
| Other soil conditioners or amendments? | ☐ **yes** | ☒ **no** |

Give details: **The quarry floor will be fractured during blasting to improve post-reclamation permeability.**

# CHECKLIST OF RECLAMATION STANDARDS

Trees and shrubs will be planted in topsoil or in subsoil amended with generous amounts of organic matter? ☐ yes ☐ no N/A
If yes, give details. If no, explain:

| | |
|---|---|
| Mulch will be piled around the base of trees and shrubs? | ☐ yes ☐ no N/A |
| High quality stock will be used? | ☐ yes ☐ no N/A |
| Trees and shrubs will be planted while they are dormant? | ☐ yes ☐ no N/A |
| Stock will be properly handled, kept cool and moist, and planted as soon as possible? | ☐ yes ☐ no N/A |
| Seeds will be covered with topsoil or mulch no deeper than one-half inch? | ☒ yes ☐ no |

If any answers are no, explain:

## 28. FINAL CHECKLIST

| | |
|---|---|
| All required maps are attached (***See Instructions for detailed requirements***)? | ☒ yes ☐ no |
| All required cross-sections are attached (***See Instructions for detailed requirements***)? | ☒ yes ☐ no |
| Geologic map attached (if required)? | ☐ yes ☐ no N/A |
| All documents submitted have the date, the name and address of the permit holder, and the application number on every page of the material? | ☒ yes ☐ no |
| The plan contains predominantly relevant information? | ☒ yes ☐ no |
| Have you completed the SM-6 and has it been signed by the local jurisdiction? | ☒ yes ☐ no |
| Have you provided the SEPA checklist? | ☒ yes ☐ no |
| Have you provided a copy of the SEPA Determination (DNS, MDNS, or DS)? | ☐ yes ☐ no N/A |
| Have you attached photographs? | ☒ yes ☐ no |
| Are additional supplemental studies included? | ☐ yes ☒ no |

If yes, check the appropriate box(es) below:

☐ Archeological ☐ Geohydrologic ☐ Backfill ☐ Slope stability
☐ Topsoil ☐ Flood plain ☐ Conservational ☐ Vegetation
☐ Other

Other permits required? ☒ yes ☐ no
If yes, check the appropriate box(es) below:

☐ Shoreline permit ☐ Water Discharge Permit ☐ Solid Waste Permit
☐ Air Quality Permit ☐ NPDS or General Discharge Permit ☐ Hydraulic Project Approval
☒ Special or Conditional Use Permit ☐ Other

# CHECKLIST OF RECLAMATION STANDARDS

***When signed by the applicant and approved by the Department of Natural Resources, this document and the associated maps, cross sections, reclamation narrative, and other attachments will be the approved reclamation plan for this permit that the permit holder must follow. Significant variations from the approved reclamation plan may require that a new plan be submitted to the Department for approval.***

The applicant shall be considered as the permit holder for this surface mine and shall be responsible for compliance with Chapter 78.44 RCW, Chapter 332-18 WAC, the approved reclamation plan and attachments, and the conditions of the permit if issued by the Department of Natural Resources.

| I hereby agree to comply with this plan.<br>*Signature of applicant or company representative*<br>Nicholas P. Seubert | Name and Title of Company Representative<br>(*Please print*)<br>Nicholas P. Seubert, President | Date signed<br>6-29-06 |
|---|---|---|

**SURFACE OWNERSHIP**

Give names, addresses, and signatures of all individuals with possessory interest in land.
(attach signed copies of this page if more than one)
I verify that the applicant has my permission to mine from my land.

*Signature of landowner(s)* — *Date Signed*
Ryan A Mills — 6-29-06
Dan Mills — 6-29-06

I hereby verify that I have seen and approved this plan.

*Signature of landowner(s)* — *Date Signed*
Ryan A Mills — 6-29-06
Dan Mills — 6-29-06

**OWERSHIP OF RIGHTS TO REMOVE MINERALS BY SURFACE MINING**

Give names, addresses, and signatures of all individuals with rights.
(attach signed copies of this page if more than one)
I verify that the applicant has my permission to mine this land.

*Signature of rights owner(s)* — *Date Signed*
Ryan A Mills — 6-29-06
Dan Mills — 6-29-06

I hereby verify that I have seen and approved this plan.

*Signature of rights owner(s)* — *Date Signed*
Ryan A Mills — 6-29-06
Dan Mills — 6-29-06

**FOR DEPARTMENTAL USE ONLY**

| Date accepted | Accepted by: | Title: | Reclamation Permit No. |
|---|---|---|---|
| | | | |

Comments by Department:

Permit No.: _____ Mine Name: Miller Quarry Date: 21-Jun-06

Seubert Excavators, Inc.
P.O. Box 57
Cottonwood, Idaho 83552

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## Written Narrative

The attached Application for Reclamation Permit Form SM-8A and WAC197-11-960 Environmental Checklist are for the proposed Miller Quarry located 5.5 miles southwest of Colfax, Washington, in Whitman County. The permitted area is approximately 35 acres with a disturbed area of approximately 33 acres. The maximum vertical depth below pre-mining topographic grade is 200 feet and the finished elevation of the quarry floor after reclamation will be approximately 1,875 feet relative to mean sea level.

The proposed Miller Quarry is located adjacent to Almota Road. Almota Road provides a vital route linking agricultural traffic southwest of Colfax to the city. The site has an existing access at the southeast corner to facilitate farming a level area of approximately one-acre in size. The southern portion of the quarry is the site of several grain silos and is utilized for equipment storage and other agricultural uses. The land northeast and adjacent to the upper boundary of the site is dry farmed.

Future mining activities will begin with salvaging and stockpiling of overburden soils for use during site reclamation. As mining proceeds toward the limits of the area of disturbance, appropriate blasting techniques will be used to create the desired post-mining maximum 50-foot vertical face with chutes, spurs, and talus slopes varied from 1:1 to 2:1 (horizontal:vertical).

At the depletion of each phase, the phase will be reclaimed using reject material and salvaged soils. The reject material will be used to adjust finished grades, establish a catchment berm along the base of the vertical slopes, and smooth the base of the quarry. The salvaged topsoil and overburden will be placed on the slopes, spurs, catchment berm, and quarry floor. The objective of reclamation will be to concentrate soil resources toward areas that will benefit the most from re-vegetation. The reclaimed level quarry floor will be utilized for agricultural purposes such as equipment, hay or grain storage, shop buildings, feed lot, or other permitted uses. All reclaimed areas will be seeded with a mixture of three native grasses at a dispersal rate in accordance with local Soil Conservation Service office recommendations.

Mining operations will proceed from Phase 1 through Phase 4 as presented on the plan sheets. The same methods of mining and controlled blasting will be utilized to shape the final slopes as the limits of the mine are approached.

Protection of area water resources will be accomplished during mining of each phase by sloping the quarry floor toward the working high wall where a settling pond will be maintained. Following reclamation, the quarry floor will have a gentle slope toward existing area drainage systems. The gentle slope of the finished grade in combination with a fractured quarry floor is anticipated to result in water infiltration on the site with limited surface runoff into area drainage systems.